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(54) Title: EHRLICHIA CANIS GENES AND VACCINES

(57) Abstract: This invention provides the sequence of 5,299 nucleotides from the E.canis genome. There are four proteins, ProA, ProB, MmpA, and a cytochrome oxidase homolog, as well as a partial lipoprotein signal peptidase homolog at the carboxy terminus, coded for in this cloned fragment. The antigenic properties of these proteins allow them to be used to create a vaccine. An embodiment of this invention includes the creation of a DNA vaccine, a recombinant vaccine, and a T cell epitope vaccine. Another embodiment of this invention includes the use of serological diagnosis techniques.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 31/70; C07H 21/02 US CL : 536/23.4; 514/44 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 536/23.4; 514/44				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched provisional application				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STIC sequence search, Medline, EAST				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.
X	Database NCBI, Accession Number AX077837, CHANG, Y.F. 22 February 2001.			1-23
Y				24-68
WO 01/07625 A2 (CORNELL RESEARCH FOUNDATION, INC.) 01 February 2001 (01.02.2001), see entire reference.			1-68	
Y	Y OGASWARA et al. A strategy for making synthetic peptide vaccines. PNAS. Vol. 89,			1-68
Y	pages 8995-8999, October 1992, see entire reference.			1-68
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Further	documents are listed in the continuation of Box C.		See patent family annex.	
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